

CONTENTS OF VOLUME 225

Editorial	4
Subacute Imipramine: Changes in Single Dose Pharmacokinetics in Rats. <i>A. R. Beaubien, L. F. Mathieu, J. A. Huddleston and H. F. James</i>	6
Effects of Probencid on Methotrexate Exchange Between the Blood and the Cerebrospinal Fluid. <i>F. R. Domer and L. R. Kaiser</i>	17
The Effect of Methysergide and Other Receptor Antagonists on Fenfluramine-Induced Glucose Uptake into the Isolated Rat Hemidiaphragm. <i>M. J. Kirby and P. Turner</i>	25
The Action of Serotonin on Basal Gastric Secretion in the Conscious Rat after Intraventricular and Intraperitoneal Administration. <i>J. Bugajski, J. Hano, L. Danek and C. Wantuch</i>	29
Effects of Antipyretic Agents on Fever and Ruminal Stasis Induced by Endotoxins in Conscious Goats. <i>A. S. J. P. A. M. van Miert, L. E. van der Wal-Komproe and C. Th. M. van Duin</i>	39
Hepatic Effects of some [4-Chloro-6-(2,3-Xylylido)-2-Pyrimidinylthio] Acetic Acid (WY-14,643) Analogs in the Mouse. <i>J. K. Reddy, D. E. Moody, D. L. Azarnoff and R. M. Tomarelli</i>	51
Regional Acetylcholine Content in Mouse Brain after Morphine Tablet Implantation. <i>W. B. Stavinoha, E. Hosoya, Y. Maruyama and A. T. Modak</i>	58
Tryptamine: Bimodal Actions on the EEG and Behavior of Rabbits. <i>W. B. Pickworth and R. P. White</i>	64
Comparative Diuretic Activity of Δ^8 -Tetrahydrocannabinol, Cannabidiol, Cannabinol and Hydrochlorothiazide in the Rat. <i>R. D. Sofia, L. C. Knobloch, J. J. Harakal and D. J. Erikson</i>	77
Pentobarbital, Diazepam and Bemegride: their Effects on Open-Field Behavior in the Gerbil (<i>Meriones Unguiculatus</i>). <i>T. U. C. Järbe and J. O. Johansson</i>	88
Selective Activation of Cardiovascular Adenylate Cyclase <i>in vivo</i> . <i>S. Phornchirasilp and R. Lockwood</i>	98
Procaine-induced Positive Chronotropic and Inotropic Responses of the Isolated, Blood-perfused Dog Atrium. <i>S. Chiba</i>	104
Some Effects of Pentazocine and Cyclazocine on the Isolated Guinea-Pig Atria. <i>C. Küçükhiçeyin</i>	114
Tissue Uptake of Isotopically Labeled Aprotinin in Early Myocardial Ischemia. <i>E. W. Polansky, K. Randall Young, Jr. and A. M. Lefer</i>	124
Cardiovascular Pharmacology of Bepridil (1 [3 Isobutoxy 2 (Benzylphenyl) Amino] Propyl Pyrrolidine Hydrochloride) a New Potential Anti-Anginal Compound. <i>D. Cosnier, P. Duchene-Marullaz, G. Rispal and G. Streichenberger</i>	133
Effects of β -Adrenoceptor Blocking Agents, Pindolol, Alprenolol and Practolol on Blood Pressure and Heart Rate in Conscious Renal Hypertensive Dogs. <i>N. Himori, T. Ishimori, A. Izumi and Y. Hiramatsu</i>	152
Further Studies on the Action of Ultraviolet Light on Vascular Smooth Muscle: Effect of Partial Irreversible Receptor Blockade. <i>L. S. Jacob and R. J. Tallarida</i>	166

An Alternative Model for Non-Competitive Antagonism. <i>H. D. Brandt and J. Offermeier</i>	180
The Desensitizing Interaction of Hexafluorenium with the Cholinergic Receptor in the Diaphragm of the Rat. <i>A. H. J. Scaf and J. W. A. Langendijk</i>	196
Interactions of Narcotics and their Antagonists with Human Serum Esterase. VI: The Behavior of 14-Hydroxylated Morphine Derivatives. <i>R. J. Capetola and A. Gero</i>	208
The Effects of Drugs and Denervation on Removal and Accumulation of Adrenaline in the Perfused Hind-Limb of the Dog. <i>F. Teixeira</i>	221
Interference by Fenfluramine with the Storage of ^{14}C -5-Hydroxytryptamine in Rat Platelets. <i>M. Wielosz, M. C. Roncaglioni, G. de Gaetano and S. Garattini</i>	232
The Effects of Indomethacin on the Tone and Spontaneous Activity of the Human Small Intestine <i>In Vitro</i> . <i>D. E. Burleigh</i>	240
Some Pharmacological Studies on the Cardiotonic Effects of Furanosteroidal Glycosides. <i>S. Matsumura, S. Kimoto, O. Uno, T. Minesita and M. Ueda</i>	246
Local Specificity in Responses of Canine Coronary Vessels to Oxygen Deficiency and Antianginal Drugs. <i>T. Kamitani, K. Nakano, J. Mori, S. Katsuki and F. Honda</i>	257
The Influence of Adenylate Cyclase Inhibitors on the Spontaneous Activity of the Cardiac Pacemaker. <i>W. Tuganowski</i>	275
Interaction of Quinidine and Propranolol in Experimental Cardiac Arrhythmias in the Dog. <i>B. R. Madan and V. K. Pendse</i>	287
Effects of Reticular Stimulation, <i>d</i> -Amphetamine and Scopolamine on Acetylcholine Release from the Hippocampus of Brainstem Transected Cats. <i>E. F. Domino, A. Bartolini and H. Kawamura</i>	294
Pre- and Post-Synaptic Actions of Apomorphine: Differentiation by Rotatory Effects in Normal Rats. <i>S. D. Glick, T. P. Jerussi, R. D. Cox and L. N. Fleisher</i> .	303
Effects of α -Methyl- <i>p</i> -Tyrosine, Adrenolytic Compounds, Pimozide and Other Neuroleptics, on the Narcotic Cue. <i>F. C. Colpaert, C. J. E. Niemegeers and P. A. J. Janssen</i>	308
Neurochemical Properties of 3,3-Dimethyl-1-[3-(Methylamino) Propyl]-1-Phenylindan HCl (LU 3-049) and Selected Tricyclic Antidepressants. <i>A. I. Salama and M. E. Goldberg</i>	317
Comparative Subcutaneous Absorption of Local Anesthetics: Lidocaine, Procaine and Tetracaine. <i>E. Menczel, A. Yacobi, I. Paran and A. Lustig</i>	330
Book Reviews	343
Contents of Volume 225	351

CONTENTS OF VOLUME 226

Inhibition of Glucosamine synthesis by Salicylates, Hydrocortisone and two Non-Ulcerogenic drugs. <i>M. J. Goodman, P. W. Kent and S. C. Truelove</i>	4
Chelating Agents and Hepatic Drug Metabolism in the Rat. <i>R. Törrönen, P. Alakuijala and M. Marselos</i>	11
Electrocorticographic effects of Topically applied Ouabain, Epinephrine and Bicuculline. <i>Ü. Tan, C. Marangoz and F. Şenyuva</i>	21
Effects of Various Neuroleptics on Rabbit Hyperthermia Induced by N, N-Dimethyltryptamine (DMT) and d-Amphetamine. <i>E. F. Domino, S. Gahagan, B. Adinoff and B. Kovacic</i>	30
Hypersensitivity of Rats to Anorectic Agents after Lesions in the Ventromedial Hypothalamus. <i>A. Pecile, V. R. Olgiati and C. Netti</i>	48
Mediation of Enhanced Reflex Vagal Bradycardia by L-Dopa via Central Dopamine Formation in Dogs. <i>M. J. Antonaccio and L. Kerwin</i>	56
The Effect of Enkephalin and Enkephalin Analogs on the Guinea-pig Ileum and Rat Brain Opiate Receptor. <i>M. M. Puig, P. Gascón, G. L. Craviso, R. A. Bjur, G. Matsueda, J. M. Stewart and J. M. Musacchio</i>	69
Pharmacologic Evaluation of CI-775, a Cardioselective Beta Adrenergic Antagonist. <i>S. G. Hastings, R. D. Smith, R. M. Corey, A. D. Essenburg, C. E. Pettway and D. K. Tessman</i>	81
Effects of Adrenaline, Angiotensin, Potassium and Calcium on Lanthanum Treated Portal Veins. <i>E. A. Savino and A. C. Taguini Jr.</i>	100
A Non-Adrenergic Inhibitory Innervation in the Rat Stomach. <i>M. A. Heazell</i> . .	109
Changes in Myocardial Calcium and E-C Coupling associated with Failure and Ouabain treatment. <i>L. E. Bailey</i>	118
Hypotensive Activity of Sodium Nitroprusside and Structurally Related Complexes of Sodium Pentacyanoamine Ferrate with Amylnitrite, Butylnitrite and n-Octylamine. <i>J. Kyncl and R. Brill</i>	132
Hemodynamic Profile of a New Cerebral Vasodilator, Vincamine and of One of its Derivatives, Apovincaminic Acid Ethylester (RGH-4405). <i>A. M. Caravaggi, A. Sardi, E. Baldoli, G. F. Di Francesco and C. Luca</i>	139
Hypotensive effects of Pentobarbital and Diuretics on sympathectomized spontaneously hypertensive rats. <i>J. Iriuchijima and Y. Numao</i>	149
Analgesic studies with Nefopam Hydrochloride. <i>A. C. Conway and C. L. Mitchell</i> .	156
Effect of Indomethacin and Cyproheptadine on Onset of Labour in Rats. <i>D. Weinstein, Y. Pfeifer, E. Sadovsky, W. Z. Polshuk and F. G. Sulman</i>	172
The β -Adrenoceptors Responsible for a Direct Relaxation of the Uncontracted Nictitating Membrane of the Anaesthetized Cat. <i>K. J. Broadley</i>	180
Influence of Apomorphine on Sympathetic Neural Transmission in the Nictitating Membrane of the Cat. <i>L. György and M. Dóda</i>	194
Iclo-Bunol and Propranolol: Further Evaluation of Oral β -Blocking Activity in Conscious Dogs. <i>M. A. Commarato, E. C. Giardino, G. A. Kopka and H. R. Kaplan</i>	205

Some Aspects of The Trachea-Heart Selectivity of Rimiterol <i>in vitro</i> and <i>in vivo</i> in Guinea-Pigs. <i>S. R. O'Donnell and J. C. Wanstall</i>	214
Oral Bronchodilator Effect of 16(S)-Methyl-20-methoxy-PGE ₂ (YPG-209) in Guinea-Pigs. <i>K. Tomioka, M. Terai and H. Maeno</i>	224
Sodium Sensitive Active Transport of Bretylium into Adrenergic Neurons for the Development of Blockade in Rabbit Ileum. <i>T. Hosotani and Y. Misu</i>	235
A Characterization of the Effects of Acetylcholine on the Rabbit Oviduct. <i>R. D. Heilman and R. R. Reo</i>	246
In Vitro Metabolism of Nicotine in Liver of Ageing Mice. <i>P. Slanina and T. Stålhandske</i>	258
A Comparison of Actodigin and Ouabain in Cats. <i>N. A. Cagin, J. Somberg, H. Bououn and B. Levitt</i>	263
Pharmacology of the Hemodynamic and Myocardial Response to Occlusion of the Mesenteric Artery in the Cat. <i>R. Z. Tuttle and M. McCleary</i>	270
Inhibition by Cinnarizine of the Properdin-Dependent Activation of Complement. <i>T. Di Perri, A. Auteri, F. Laghi Pasini and F. Mattioli</i>	281
Anti-arrhythmic and General Pharmacological Properties of Some 1,3-Benzodioxole Derivatives. <i>G. B. Fregnani, G. Forni and M. Prada</i>	286
Central Anticholinergic Effects of N-ethyl-2-pyrrolidylmethyl-cyclopentylphenyl Glycolate. <i>Z. Szreniawski, W. Kostowski, J. Meszaros, S. Gajewska, J. Faff, W. Bak and S. Rump</i>	302
The Influence of Pentobarbital Upon a Cortical Epileptogenic Focus in Rats. <i>P. Mareš, M. Kolinová and J. Fischer</i>	313
Inhibitory Effect of Fumaric Acid and Dicarboxylic Acids on Gastric Ulceration in Rats. <i>K. Kuroda and M. Akao</i>	324
Altered Sensitivity to Acetylcholine during Chronic Administration of Organo-phosphorus Anticholinesterase (Fenthion) in Albino Mice. <i>V. S. Gokhale, V. M. Bapat, S. V. Kanitkar and S. D. Kulkarni</i>	331
Catecholamine Involvement in the Narcotic Cue. <i>F. C. Colpaert, C. J. E. Niemegeers and P. A. J. Janssen</i>	339
Effects of Prostaglandins on the Peristaltic Reflex of the Guinea-Pig Ileum. <i>J. Fontaine, J. M. Van Nueten and J. J. Reuse</i>	341
Daunomycin and Daunomycinol Plasma Levels Measured by HPLC after Perfusions Of Daunomycin and Daunomycin-DNA Complex in Rabbits: a Preliminary Report. <i>R. Hulhoven, J. P. Desager, G. Sokal and C. Harvengt</i>	344
Effect of Temperature on the Disposition of Neurotransmitters in the Saphenous Veins of the Dog. <i>W. J. Janssens and P. M. Vanhoutte</i>	346
Response of Avian Oviduct and Arterial Pressure to Prostaglandin E ₂ . <i>E. Wechsung and A. Houvenaghel</i>	348
Contents of Volume 226	351

CONTENTS OF VOLUME 227

Sensitivity of Different Segments of Rabbit Aorta to Acetylcholine and Isoproterenol. <i>R. K. Hester and O. Carrier, Jr.</i>	4
The Effect of Beta-Adrenoceptor Antagonists on the Alpha-Adrenoceptor Blockade Produced by Phenoxybenzamine. <i>A. Sankaranarayanan and P. L. Sharma</i>	11
An Analysis of the Characteristics of the Adrenergic Neurone Blocking Action of Dimethylphenylpiperazinium. <i>S. Jayasundar and M. M. Vohra</i>	23
Effects of Chronic Treatment with Propranolol on Blood Pressure and Cardio- vascular Reactivity in Spontaneously Hypertensive Rats. <i>T. Kubo, K. Esumi and K. Ennyu</i>	30
Mechanism of the Hypotensive Action of Prazosin. <i>H. F. Oates, R. M. Graham and G. S. Stokes</i>	41
Effect of Indomethacin on the Responses of Resistance and Capacitance Vessels to Noradrenaline in Working Skeletal Muscles in the Dog. <i>H. Jancaewska and K. Herbacayńska-Cedro</i>	49
Comparison of the Antiarrhythmic Activity of Quinidine and Quinine. <i>L. R. Klevans, R. J. Kelly and J. L. Kovacs</i>	57
Effects of Atropine on Paraoxon-Induced Alterations in Brain Acetylcholine. <i>L. Wecker, P. L. Mobley and W.-D. Dettbarn</i>	69
N-(4-Acetamidophenyl)-anti-tricyclo [4.2.2.0 ^{2,5}] deca-3, 9-diene-7, 8-endodicar- boximide—A Chemically Novel Anticonvulsant. <i>V. J. Lotti</i>	76
A Cough-Like Respiratory Response Induced by Electrical Stimulation of the Amygdaloid Complex in the Cat. <i>G. Kito, Y. Kasé and T. Miyata</i>	82
Effect of Sexual Steroid Hormones and of Clomiphene on the Behavioral Response to L-Dopa in Mice. <i>A. Scotti de Carolis and V. G. Longo</i>	93
The Effect of Cocaine and D-Amphetamine on Punished Responding. <i>M. C. Wilson</i>	98
Interactions between Alcohol and other Drugs on Open-Field and Temperature Measurements in Gerbils. <i>T.U.C. Järbe and G. Ch. Ohlin</i>	106
Alcohol-Discrimination in Gerbils: Interactions with Bemegride, DH-524, Amphetamine, and Δ ⁹ -THC. <i>T.U.C. Järbe</i>	118
Some Aspects of the Pharmacology of Butibufen, a Non-Steroidal Anti-Inflammatory Agent. <i>L. Aparicio</i>	130
Pharmacology of a New Non-Steroidal, Anti-Inflammatory Agent: 6, 11-Dihydro- 11-Oxodibenzo[b, e] Oxepin-2-Acetic Acid (HP 549). <i>H. B. Lassman, R. E. Kirby, J. C. Wilker, A. R. McFadden, D. E. Aultz, D. Hoffman, G. C. Helsley and W. J. Novick, Jr.</i>	142
Comparison of the Reactivity of Isolated Saphenous Veins of Rabbit and Dog. <i>J. De Mey and P. M. Vanhoutte</i>	155
Subcellular Distribution of Noradrenaline and Dopamine β -Hydroxylase in Sympathetic Nerves Innervating the Rabbit Iris. <i>W. P. De Potter, F. De Smet and E. Cambie</i>	157
Effect of Prostaglandin F _{2α} and E ₂ on Milk Ejection, Blood Pressure and Mammary Artery Blood Flow in the Cow. <i>G. Dhondt, A. Houvenaghel, G. Peeters and W. Jöchle</i>	159
Formation of Prostacyclin (PGI ₂) by Different Layers of the Arterial Wall. <i>A. G. Herman, S. Moncada and J. R. Vane</i>	162
Effect of Temperature on Drug-Receptor Interaction in Isolated Canine Veins. <i>W. J. Janssens and P. M. Vanhoutte</i>	164

The Inhibition of Human Heart (Na ⁺ - K ⁺)ATPase by Semisynthetic Digitalis Glycosides. <i>N. Tona Lutete, F. Noel, A. De Pover and T. Godfraind</i>	166
Inhibition by Purines of Peristaltic Activity in the Guinea-Pig Ileum. <i>J. M. Van Nueten, J. Fontaine, L. Helsen and P. A. J. Janssen</i>	168
Determination of ³ H-Norepinephrine and its Metabolites in Superfusate from Isolated Blood Vessels. <i>T. J. Verbeuren, E. Coen and P. M. Vanhoutte</i>	171
Inhibition by Catecholamines of Cholinergic Neurotransmission in Canine Bronchi <i>in vitro</i> . <i>P. A. Vermeire and P. M. Vanhoutte</i>	175
Dissociation of Lipolysis from the Levels of Cyclic AMP in Rat Epididymal Fat Cells. <i>M. Chasin, F. Mamrak, K. Koshelnyk and M. Rispoli</i>	180
Vascular Alpha Adrenotropic Responses of the Isolated Rabbit Kidney at 15° C. <i>M. C. Fonteles and A. M. Karow, Jr.</i>	195
Influence of Acetylcholine, Isoproterenol, Quinidine and Ouabain on Effective Refractory Periods of Atrial and Ventricular Myocardium in the Dog. <i>J. P. Farges, M. Ollagnier and G. Faucon</i>	206
Comparison of the Cardiac Effects of ASI-222 HCl, an Aminosugar Cardiac Glycoside, and Digoxin. <i>L. S. Cook, R. W. Caldwell and C. B. Nash</i>	220
Inhibitory Effects of Sexual Steroidal Hormones on the Responses of the Isolated Guinea-Pig Ileum to Acetylcholine and Histamine. <i>I. Seaman, J. P. Famaey, J. Fontaine and J. Reuse</i>	233
Interaction of Drugs with Apomorphine, Tryptamine and Norepinephrine. A New 'in vivo' Approach: the ATN-Test in Rats. <i>C. J. E. Niemegeers, F. M. Lenaerts, K. S. K. Artois and P. A. J. Janssen</i>	238
Absorption, Fate and Excretion of Glaziovine- ¹⁴ C in the Dog. <i>A. Marzo, P. Ghirardi, L. Merlo and G. Marchetti</i>	254
Measurement of Drug Displacement of Protein-Bound Bilirubin Using Gel Filtration. <i>R. A. Yeary, K. J. Wise and D. R. Davis</i>	263
The Relative Sensitivity of Pyridoxal Phosphate-Dependent Enzymes to Inhibition <i>in Vitro</i> . <i>B. Kilgallon and D. M. Shepherd</i>	272
Studies on Drug Metabolism and Liver Ultrastructure after Conjoint Treatment with Pregnenolone-16 α -Carbonitrile and dl-Ethionine. <i>B. D. Garg, P. Kourounakis, B. Tuchweber, S. Szabo and K. Kovacs</i>	283
Studies of Excretion in Rabbit Milk after Administration of Carbon-14 Labelled Amitriptyline and Nortriptyline. <i>T. Aaes-Jorgensen and A. Jorgensen</i>	294
Blockade of Δ^9 -THC Induced Hypothermia in Rats. <i>W. T. Schmeling and M. J. Hosko</i>	302
Cilioinhibitory Effect of Phenothiazines <i>In Vitro</i> and its Antagonism by Ca ⁺⁺ . <i>K. B. Adler and I. Fand</i>	309
Effects of 3,4-Dihydro-1H-1,4-Oxazino[4,3-a] Indoles, Potential Antidepressants, on Biogenic Amine Uptake Mechanisms and Related Activities. <i>W. Lippmann and T. A. Pugsley</i>	324
Pharmacological Stimulation of Renin Secretion within the Kidney. <i>M. A. Weber, R. M. Graham, J. M. Gain and G. S. Stokes</i>	343
Contents of Volume 227	351

CONTENTS OF VOLUME 228

Hydroxylation of 5,5-Diphenylhydantoin (Phenytoin) by Dog Liver Microsomes. <i>T. C. Butler, K. H. Dudley, G. N. Mitchell and D. Johnson</i>	4
The Effects of ATP-Receptor Blocking Agents on the Response of the Guinea-Pig Isolated Bladder Preparation to Hyoscine-Resistant Nerve Stimulation. <i>D. F. Weetman and N. Turner</i>	10
Inhibition of ³ H-Angiotensin II binding to Zona Glomerulosa cells by several analogs. <i>S. Gurchinoff and P. A. Khairallah</i>	15
Effect of Phthalazinol (EG-626) on the Mechanical Activity and Calcium Influx of Rabbit Portal Vein. <i>M. Kaiman, S. Shibata and T. Shimamoto</i>	23
Influence of MAO Inhibitors on Uptake and Release of Norepinephrine in Rat Brain <i>in vitro</i> . <i>R. J. Ziance, K. Moxley, M. Mullis and W. Gray</i>	30
Variations of Histamine Concentration in Sleep and Arousal Hemodialysates (Seasonal, thalamic and reticular influences). <i>M. Monnier and B. Herkert</i>	39
The Effect of Alcohol upon "Muscle Pull" of Mice. <i>C. C. Porter, R. H. Thomas, M. J. DeFelice, D. C. Titus and G. J. Peklak</i>	50
The Effects of Ethanol and Pentobarbital on the Naloxone Precipitated Escape Response in Morphine Dependent Mice. <i>R. L. Pack and A. P. Ferko</i>	58
Δ^9 -THC as a Discriminative Cue in Pigeons: Effects of Δ^8 -THC, CBD, and CBN. <i>T. U. C. Järbe, B. G. Henriksson and G. C. Ohlin</i>	68
Comparative Activity of Δ^9 -Tetrahydrocannabinol, Diphenylhydantoin, Phenobarbital and Chlordiazepoxide on Electroshock Seizure Threshold in Mice. <i>R. D. Sofia and H. Barry, III</i>	73
The Role of the Adrenergic Nervous System in the Pressor Response Due to Acute Elevation of Intracranial Pressure (Cushing's Response). A Pharmacological Analysis. <i>N. Th. P. Roozekrans and P. A. van Zwieten</i>	79
Positive Inotropic and Antiarrhythmic Actions of Actodigin in Dogs. <i>J. R. Cummings and G. Beaulieu</i>	92
Effects of Lithium Chloride, Desmethylimipramine and Cocaine on the Cardiovascular actions of Ouabain in dogs with or without Carotid and Aortic Baro-Receptor Reflexes. <i>B. N. Basuray, S. N. Dutta and W. M. Booker</i>	99
Biphasic Response of the SA Node of the Dog Heart <i>In Vivo</i> to Selective Administration of Ketamine. <i>T. Nakajima, T. Azumi, H. Iwasaki, S. Kaneshiro and Y. Yatabe</i>	108
Cardiovascular Effects of 5-Hydroxypropranolol (ORF 12592) in Dogs. <i>N. Ram, E. W. Bauer, U. C. Hesse and R. D. Heilman</i>	118
Effects of Morphine and Acetylsalicylic Acid on Kinin Forming Enzyme in Rat Paw. <i>R. Inoki, T. Hayashi, T. Kudo, K. Matsumoto, M. Oka and Y. Kotani</i>	126
A Comparison of the Effect of Proquazone, A New Non-Steroidal Antiinflammatory Compound, and Acetylsalicylic Acid on Blood Platelet Function <i>In Vitro</i> and <i>In Vivo</i> . <i>I. B. Holmes</i>	136
Anti-Inflammatory Activity of EU-2972, 2-(3,4-Dichlorophenylamino)quinolizinium Bromide. <i>M. M. Goldenberg and A. C. Ilse</i>	153
The Influence of Various Methods of Sensitization on Delayed Hypersensitivity to Bordetella Pertussis in the Sprague Dawley Rat. <i>J. P. Tarayre, A. Delhon and H. Lauressergues</i>	162

Enhanced Ocular Penetration of the Methyl Ester of (\pm) Alpha-Methyl-Para-Tyrosine after Iontophoresis. <i>B. K. Colasanti and R. R. Trotter</i>	171
Hepatic Oxidative Drug Metabolism in Rats with Experimental Renal Failure. <i>A. P. Van Peer and F. M. Belpaire</i>	180
Mechanism of Inhibition of Dopamine β -Hydroxylase Evoked by FLA-63. An <i>in vitro</i> Study. <i>O.-E. Brodde, M. Nagel and H. J. Schümann</i>	184
Comparative Study of Propranolol and Dicyclohexylamine Protection of α -Receptor Blockade. <i>J. A. Hickman, D. R. Mottram and C. Kidman</i>	191
Influence of Cyclic Nucleotides and a Phosphodiesterase Inhibitor on <i>in vitro</i> Human Blood Neutrophil Chemotaxis. <i>I. Rivkin and J. A. Neutze</i>	196
Effects of Diltiazem on High-Energy Phosphate Contents Reduced by Isoproterenol in Rat Myocardium. <i>S. Takeo and F. Takenaka</i>	205
Influence of Temperature and Frequency on the Positive Inotropic Action of Phenylephrine in the Isolated Rabbit Papillary Muscle. <i>M. Endoh, B. Hillen and H. J. Schümann</i>	213
Disopyramide Phosphate: Tissue Uptake and Relationship between Drug Concentrations in the Plasma and Myocardium of Rats. <i>A. Karim, C. Kook, J. Campion and M. Doherty</i>	222
Hypotensive and Bradycardic Activities of Clonidine and Related Imidazolines; Structure-Activity Relationship. <i>P. B. M. W. M. Timmermans and P. A. Van Zwieten</i>	237
Central Hypotensive and Antihypertensive Activities of Imidazolines, Structurally Related to Clonidine. <i>P. B. M. W. M. Timmermans and P. A. Van Zwieten</i>	251
The Pharmacology of N-Substituted Azidomorphines. <i>J. Knoll, S. Fürst and S. Makleit</i>	268
Effects of Tricyclic Compounds and other Drugs Having a Membrane Stabilizing Action on Analgesia, Tolerance to and Dependence on Morphine. <i>E. Contreras, L. Tamayo and L. Quijada</i>	293
Effect of Maternal Methadone Addiction on Offspring in Rats. <i>T. Field, A. McNelly and D. Sadava</i>	300
Putative Neurotransmitters in CNS and Chemoconvulsions. <i>K. V. Chimote and P. J. Moghe</i>	304
Hyperthermic Effects of D-Lysergic Acid Diethylamide and its Derivatives in Rabbits and Rats. <i>H. Hashimoto, M. Hayashi, Y. Nakahara, T. Niwaguchi and H. Ishii</i>	314
1-[2-Amino-1-[1-(Naphthoxy)methyl]ethyl] Piperidine Hydrochloride: Specific Inhibition of Brain Serotonin Uptake and Related Activities. <i>T. A. Pugsley and W. Lippmann</i>	322
Calcium-Antagonists and Islet Function X. Effect of Suloctidil. <i>W. J. Malaisse</i> .	339
Book Reviews	345
Contents of Volume 228	351

CONTENTS OF VOLUME 229

Contractile Responses to Tryptamine Analogues in Isolated Smooth Muscle. <i>E. J. Hixson, G. V. Lehrmann and R. P. Maickel</i>	4
Uptake, Turnover and Release of Norepinephrine in Pigmented and Albino Rat Eye. <i>M. Orosco, C. Jacquot, J. R. Rapin and J. Wepierre</i>	15
Effects of Nicotine and Cocaine on the Release of Acetylcholine from Isolated Human Placental Villi. <i>B. V. R. Sastry, J. O. Olubadewo and F. H. Boehm</i>	23
The Effect of Dimethylphenylpiperazinium on the Amine Uptake Process. <i>S. Jayasundar and M. M. Vohra</i>	37
Norepinephrine-Stimulated Cyclic AMP Accumulation in Brain Slices <i>In Vitro</i> after Serotonin Depletion or Chronic Administration of Selective Amine Reuptake Inhibitors. <i>M. J. Schmidt and J. F. Thornberry</i>	42
The Effect of Repeated Administration of Δ^9 -Tetrahydrocannabinol on Serotonin Metabolism in the Rat Brain. <i>R. D. Sofia, B. N. Dixit and H. Barry, III</i>	52
Isoprenaline-induced Release of Cyclic Adenosine 3',5'-monophosphate by the Left Ventricle in the Anaesthetized Intact Dog. <i>T. Huynh-Thu and J. Lammerant</i>	59
Effects of D 600 and Papaverine on the Inotropic Response to Isoprenaline on Left Guinea-Pig Atria under the Graded Influence of Changes of Frequency and Temperature. <i>D. Reinhardt, P. Freynik and H. J. Schümann</i>	67
Effects of Angiotensins and Catecholamines on the Transmembrane Potential and Isometric Force of Rabbit Isolated Atria. <i>J. L. Bonnardeaux, W. K. Park and D. Regoli</i>	83
Effect of Aminophylline on Coronary Circulation and Cardiac Metabolism. <i>H. H. Oei, T. H. Hale, S. S. Gandhi, T. J. Pilla and R. Wegria</i>	95
Peripheral Vascular Actions of Alpha-Methyldopa in the Dog. <i>E. Rodrigues-Pereira</i>	105
Neural Mechanism for Production of Spasmodic Expiratory Response Like Cough Induced by Amygdala Stimulation in the Cat. I. Pathways from the Amygdala to the Lower Brain Stem. <i>G. Kito, Y. Kasé, T. Miyata and K. Takahama</i>	116
Studies on Hyperactivity in Rats Given Tranylcypromine Stereoisomers and Reserpine. <i>D. F. Smith</i>	129
Atropine Substitutes and the Writhing Syndrome in Mice. <i>M. S. Kelkar</i>	133
The Effects of Propranolol HCl in Hippocampal-Lesioned Rats. <i>N. Ram, U. C. Hesse and R. D. Heilman</i>	138
Neurophysiological Assessment of Site Specific Effects of Chronic Morphine Administration in Freely Behaving Rats. <i>R. E. McClung, T. F. Burks and N. Dafny</i>	144
Changes in the Frequency of Electroencephalographic Rhythms of the Rat Caused by Single, Intraperitoneal Injections of Ethanol. <i>L. Prado de Carvalho and I. Izquierdo</i>	157
Pharmacology of 9- γ -Methylaminopropyl-9,10-Dihydro-9,10-Methanoanthracene · HCl (ID-9206 · HCl), a New Potent Antidepressant. <i>H. Fukushima, M. Nakamura and H. Yamamoto</i>	163

The Effects of Phenobarbital and 3,4-Benzpyrene on Microsomal Cytochrome P-450 and NADPH-Cytochrome C Reductase in Regenerating Rat Liver after Partial Hepatectomy or Chemical Injury. <i>D. I. Katz, R. J. Stenger, E. A. Johnson, R. K. Datta and J. Rice</i>	180
Species Differences in the Hepatic Microsomal Oxidation of Nalidixic Acid. <i>F. Harvey and J. Edelson</i>	192
Cytosine Arabinoside Binding to Human Plasma Proteins. <i>H. C. van Prooijen, G. Vierwinden, J. Wessels and C. Haanen</i>	199
Cardiodepressive and Noradrenaline-Antagonistic Effects of the Organic Calcium-Antagonist D 600 in the Spontaneously Beating Guinea-Pig Atrium. <i>J. Wagner and H. J. Schümann</i>	206
Inhibiting Effect of Droperidol Compared with Verapamil on the Myocardial Fiber Calcium Exchange Determined by a Simple Physiological Procedure. <i>D. García-Barreto, A. Pérez and K. Hernández</i>	213
A Rapid In Vivo Technique for Preliminary Screening of Antiarrhythmic Agents in Mice. <i>P. U. Nwangwu, T. L. Holekamp and S. J. Stohs</i>	219
Effect of some Beta-adrenergic Blocking Drugs on the Renal Blood Flow in Dogs. <i>M. Abdel-Razzak</i>	227
The Effect of Quinidine, Propranolol and their Combination on Experimental Atrial and Ventricular Arrhythmias. <i>J. W. Lawson and N. J. Wojciechowski</i> . .	235
Hypotensive Action of an Intra-Nasally Applied Angiotensin II-Antagonist. <i>B. A. Schoelkens, R. Lux and R. Steinbach</i>	244
Biological Evaluation of some Terphenyl Analogs of Hemicholinium No. 3. <i>F. R. Domer, R. C. Koch, H. C. Charles and D. M. Chihal</i>	251
Transmitter Mobilization at the Frog Neuromuscular Junction. <i>K. Alkadhi and R. L. Volle</i>	261
Biological Evaluation of some Biphenyl Analogs of Acetyl- <i>seco</i> -Hemicholinium No. 3. <i>F. R. Domer, H. C. Charles, D. M. Chihal and R. C. Koch</i>	276
Morphine and Methadone-Induced Antinociception in Rats Permanently Depleted of Brain Dopamine. <i>J. A. Rosecrans, M. A. Elchisak and G. J. Harry</i>	287
The Effects of Different Amphetamines on Copulatory Behaviour and Stereotype Activity in the Female Rat, after Treatment with Monoamine Depletors and Synthesis Inhibitors. <i>A. Michanek and B. J. Meyerson</i>	301
Further Evidence for GABA-ergic Mechanisms in the Action of Benzodiazepines. <i>V. V. Zakusov, R. U. Ostrovskaia, S. N. Kozhechkin, V. V. Markovich, G. M. Molodavkin and T. A. Voronina</i>	313
Behavioural Despair in Mice: A Primary Screening Test for Antidepressants. <i>R. D. Porsolt, A. Bertin and M. Jalfre</i>	327
Inhibition of Glucose Absorption by 3-phenylpropylaminoguanidine · HCl (SaH 43-522) in Laboratory Animals. <i>R. S. Ho, L. A. Kelly, J. H. Gogerty, J. H. Trapold and A. R. Timms</i>	337
Contents of Volume 229	351

CONTENTS OF VOLUME 230

Species Differences in the Metabolism of Hycanthone. <i>C. Davison, M. Scrimge and J. Edelson</i>	4
Ethanol Effects on Active and Passive Na^+ Flux in Toad Bladder. <i>L. Amaranath and A. H. Anton</i>	19
Characteristics of ^{45}Ca Uptake and Efflux in Rat Lung Slices. <i>F. R. Goodman and T. H. Gardiner</i>	31
The β -Adrenergic Activity of some Monosubstituted Phenethanolamines. <i>L. G. Letts, P. A. Easson, D. M. Temple, B. V. Lap, C. H. Lim, A. J. Orr, S. J. Pasaribu, S. N. Quessy and L. R. Williams</i>	42
Postnatal Developmental Changes in Adrenergic Receptor Responses of the Dog Tracheal Muscle. <i>K. H. Pandya</i>	53
Noradrenergic Mediation of the Positive Reinforcing Properties of Ethanol: I. Suppression of Ethanol Consumption in Laboratory Rats Following Dopamine-Beta-Hydroxylase Inhibition. <i>Z. Amit, Z. W. Brown, D. E. Levitan and S.-O. Ögren</i>	65
Noradrenergic Mediation of the Positive Reinforcing Properties of Ethanol: II. Extinction of Ethanol-Drinking Behavior in Laboratory Rats by Inhibition of Dopamine-Beta-Hydroxylase. Implications for Treatment Procedures in Human Alcoholics. <i>Z. W. Brown, Z. Amit, D. E. Levitan, S.-O. Ögren and E. A. Sutherland</i>	76
Improvement of Shuttle-Box Performance of Mice by Combinations of Benzodiazepines and Morphine Given during Training. <i>M. Sansone, C. Castellano and J. Vetulani</i>	83
Action of Phenytoin, Ethosuximide and of the Carbiphenyl-L-Dopa Association in Semi-Chronic Cobalt-Induced Epilepsy in the Rat. <i>J. Scuvée-Moreau, M. Lepot, J. Brotchi, M. A. Gerebtszoff and A. Dresse</i>	92
Changes in Spontaneous Activity and Emotional Responses of Rats Treated with 6-Hydroxydopamine at the Suckling Age. <i>T. Fukuda, K. Yamada, N. Suenaga and S. Takishita</i>	100
Negative Chronotropic Effect of Propanidid on the SA Node of the Dog Heart <i>In Vivo</i> . <i>T. Nakajima, Y. Yatabe and H. Yagata</i>	112
The Acute Systemic and Coronary Hemodynamic Effects of Acetaldehyde. <i>G. T. Bandow, S. Afonso and G. G. Rowe</i>	120
The Systemic and Coronary Hemodynamic Effects of Intracoronary Arterial Tolazoline (Priscoline®). <i>G. G. Rowe, W. C. Zarnstorff and S. Afonso</i>	131
Coronary Dilatory Action of Adenosine Analogues: a Comparative Study. <i>G. Raberger, W. Schütz and O. Kraupp</i>	140
Adrenal Catecholamine Release by Trivalent Metallic Cations. <i>J. L. Borowitz and A. Noller</i>	150
A Stop Flow Analysis of the Effects of Intrarenal Infusion of Bradykinin. <i>L. R. Capelo and F. Alzamora</i>	156
Anti-Inflammatory Activity in Oak Gall Extracts. <i>D. Chu and B. A. Kovacs</i>	166
Effect of Cations on Tetraethylammonium Exit from Mouse Kidney Cortex Slices. <i>J. Holm</i>	180
A Comparative Study of the Beta-adrenoceptors of Guinea-pig, Rabbit and Rat Trachea. <i>A. P. Rajani, D. S. Shah and O. D. Gulati</i>	190
The Effects of Samarium on the Contractile Responses of the Guinea-Pig Taenia Coli to Acetylcholine, Potassium, Histamine and Barium. <i>M. A. Turrin and S. De Moraes</i>	199

The Absence of Sensitivity Changes of the Rabbit Oviduct to Phenylephrine and Isoproterenol during Early Gestation. <i>R. D. Heilman and R. R. Reo</i>	210
Effects of Clonidine on Basal and Cold-Stimulated TSH Secretion. <i>U. Scapagnini, L. Annunziato, G. F. Di Renzo, G. Schettini and P. Preziosi</i>	220
Clinical Experience with Lorcainide (R 15 889), a New Anti-Arrhythmic Drug. <i>H. Kesteloot and R. Stroobandt</i>	225
Post-Extrasystolic Potentiation; Effect of Ca, Histamine, Caffeine and Epinephrine. <i>W. C. De Mello</i>	235
Change in Automaticity of Excised, Sino-Atrial Node by Alprenolol and its Dextro Isomer and Several Drugs Injected into the Sinus Node Artery of the Dog. <i>N. Himori and A. Izumi</i>	245
Acute Cardiovascular Activity of Beta-Adrenoceptor Blocking Drugs in Awake or Anaesthetized Normotensive and Hypertensive Rats. <i>M. Davy, M. Midol-Monnet, Y. Cohen and J. Wepierre</i>	257
Pharmacodynamic Study of a Pyroptalone: [Methyl-2 (Piperidino-2 Ethyl-1)-1 Dihydro 1-4 Pyridylidene-4 yl]-2 Indanedione 1-3. I. Anti-inflammatory Activity. <i>J. Y. Petit, N. Henry and L. Welin</i>	279
Pharmacodynamic Study of a Pyroptalone: [Methyl-2 (Piperidone-2 Ethyl-1)-1 Dihydro 1-4 Pyridylidene-4 yl]-2 Indanedione 1-3. II. Mechanism of Action. <i>N. Henry, J. Y. Petit and L. Welin</i>	289
Concentrations of Acidic Antiinflammatory Drugs in Gastric Mucosa. <i>H.-H. Frey and M. A. El-Sayed</i>	300
Suppression of the Hyperacute Form of Experimental Allergic Encephalomyelitis by Drugs. <i>S. Levine and R. Sovinski</i>	309
Sensitization and Desensitization to Lateral Hypothalamic Stimulation. <i>F. C. Colpaert</i>	319
Reduction by Flunarizine of the Increase of Blood Viscosity after Ischemic Forearm Occlusion. <i>F. De Clerck, J. De Cree, J. Brugmans and D. Wellens</i>	321
Effects of some Antineoplastic Agents on Plasma Levels of Corticosterone, Prolactin and Thyroid Stimulating Hormone. <i>G. F. Di Renzo, G. Schettini and P. Preziosi</i>	324
Vascular Reactivity in an Isolated Bone Preparation. <i>M. Driessens and P. M. Vanhoutte</i>	330
Isoprenaline Relaxation in Vascular Smooth Muscle of Aged Rats. Effect of Flunarizine. <i>T. Godfraind</i>	331
Influence of Prostaglandins on Blood Flow through the Superior Mesenteric Artery in the Pig. <i>A. Houvenaghel and E. Wechsung</i>	332
Influence of Different Drugs on the Slow Response of the Intestine during the Schultz-Dale Reaction. <i>G. M. Laekeman, A. G. Herman and J. M. van Nueten</i>	335
A Serotonergic Component of Neuroleptic Receptors. <i>J. E. Leysen and P. M. Laduron</i>	337
The Inhibitory Effects of Steroidal Sex Hormones on the Responses of the Guinea-Pig Isolated Ileum to Nicotine and Serotonin. <i>I. Seaman, J. Fontaine, J. P. Famaey and J. Reuse</i>	340
Book Reviews	344
Contents of Volume 230	351

